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I. Overall Status:

1. On March 11-14, Dennis Trexler and I attended a meeting in Houston to review all existing Skylab data and to discuss plans for contract extensions and new contracts for FY 75.

2. The conclusion drawn from the data review are that the best coverage was obtained in the Walker Lake area which is north and west of the primary site, although some possibility exist that data was taken over the primary site during SL-4 on magazine #90 which was not available for inspection. The other data from SL-4 was inspected and has been ordered.

3. The best data for structural studies is from the 190-B camera which was flown in stero using color ektachrome at 8:30 in the morning on Aug. 11th along Track #6. The imagery can be defined as low sun angle photography. While we were in Houston a special work order was implemented for the S-190B, Aug. 11th, photos, wherein the photo-lab worked with us to produce a good color balance, before the photos were sent to the meteric laboratory. The objective is to obtain third generation color transparencies at a scale of 1:250:00. The request includes the Track #59, S-190B data colected during SL-3 on September 13, 1973.

4. It would now appear that the best chance for lithologic discriminations will be from SL-3, S-190A and S-190B data taken along Track #59 on September 13th. These data however are not in stero and have an increased cloud cover problem as they go east from Mono Lake. The current plan will be to go to Houston after all the final data products have been delivered to use some of their additive color viewing capability and to use some of the enlargements for direct mapping and later comparative work.

5. A specific plan for the S-192 scanner imagery is much more obscure due to a lack of finished data products and the uncertainties involving delivery times. At this time we have plans to look at the calibrated, straight-line and conical data, along Track #6 and #59, when it becomes available and to work it in with lithologic studies as time will allow.

6. The 70 mm color and color IR have been delivered from SL-2 along with the color ektachrome from mission #249 flown on August 29, 1973. Some of the aircraft coverage from the 29th will be useful in the Aug. 11th and Sept. 13th Skylab studies.

7. It is difficult to project just how much emphasis should be given to individual efforts since the exact delivery dates for the final data in working formats is unknown. From our discussions in Houston the projections for the time left to do the work will not exceed May of 1975. These considerations therefore, will be the basis for a new statement of work to cover the proposed extension in time.

8. From my previous experiences with final report writing and in view of the ultimate need to produce a great deal of color reproductions I wonder if NASA has given serious consideration to how this will be handled by the PI's? It would be difficult for me to even make an estimate of the number of photos or scanner lines that might be involved due to all the aforementioned considerations.

J. Expected accomplishments for the next reporting period.

1. Work will progress on fracture studies using our own forth generation enlargements from the S-190B photographs. After the initial work has been completed, comparative work with aircraft and existing geologic work will be started, prior to going in the field.